



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,281	07/07/2003	Long-Wen Tain	250907-1090	7423
24504	7590	11/16/2005	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			HAROON, ADEEL	
100 GALLERIA PARKWAY, NW			ART UNIT	
STE 1750			PAPER NUMBER	
ATLANTA, GA 30339-5948			2685	

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/614,281	TAIN ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Adeel Haroon	2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____   |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____  | 6) <input type="checkbox"/> Other: ____                                     |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Obara (U.S. 6,304,749).

With respect to claim 1, Obara discloses a method for transmit power adjustment in a radio frequency system (Column 3, lines 4-26). Obara discloses detecting output power of a transmit channel and generating an input value, D, substantially indicative of the output power (Column 6, lines 41-46). Obara discloses determining if the input value falls within a desired range (Column 3, lines 21-26). Obara also discloses computing an output value, F, based on a difference, E, multiplied by a predetermined factor, G, if the input value is out of the desired range, where the difference is between the input value and a target value, C, substantially corresponding to a desired output power of the transmit channel (Column 6, lines 56-63). Obara further discloses adjusting the output power for the transmit channel in accordance with the output value and

Art Unit: 2685

repeating the process until the gain is with a desired, allowed range (Column 3, lines 4-26).

With respect to claim 2, Obara discloses that the predetermined factor is dictated by output value and output factors and the change between them, which is interpreted as the slope of the output value versus output power (Column 7, lines 1-6 and Column 13, lines 1-19).

With respect to claims 3 and 4, Obara further discloses controlling a variable gain amplifier, element number 12, of a transceiver, element number 11, in accordance with the output value and that the output power is detected from the power amplifier subsequent to the transceiver (Column 6, lines 3-11).

With respect to claim 5, Obara discloses a method for transmit power adjustment in a radio frequency system (Column 3, lines 4-26). Obara discloses detecting output power of a transmit channel and generating an input value, D, substantially indicative of the output power (Column 6, lines 41-46). Obara also discloses computing an output value, F, based on a difference, E, multiplied by a predetermined factor, G, where the difference is between the input value and a target value, C, substantially corresponding to a desired output power of the transmit channel (Column 6, lines 56-63). Obara further discloses adjusting the output power for the transmit channel in accordance with the output value (Column 3, lines 4-26).

With respect to claim 6, Obara discloses that the predetermined factor is dictated by output value and output factors and the change between them, which is interpreted

Art Unit: 2685

as the slope of the output value versus output power (Column 7, lines 1-6 and Column 13, lines 1-19).

With respect to claims 7 and 8, Obara further discloses controlling a variable gain amplifier, element number 12, of a transceiver, element number 11, in accordance with the output value and that the output power is detected from the power amplifier subsequent to the transceiver (Column 6, lines 3-11).

With respect to claim 5, Obara discloses an apparatus for transmit power adjustment in a radio frequency system (Column 3, lines 4-26). Obara discloses a detector/input module, element number 11, adapted to detect output power of a transmit channel and generating an input value, D, substantially indicative of the output power (Column 6, lines 41-46). Obara discloses an output module, element number 23, for accepting an output value that is used to adjust the output power (Column 6, lines 64-67). Obara also discloses means, element numbers 20 and 22, for computing an output value, F, based on a difference, E, multiplied by a predetermined factor, G, where the difference is between the input value and a target value, C, substantially corresponding to a desired output power of the transmit channel (Column 6, lines 56-63).

With respect to claim 10, Obara discloses that the predetermined factor is dictated by output value and output factors and the change between them, which is interpreted as the slope of the output value versus output power (Column 7, lines 1-6 and Column 13, lines 1-19).

With respect to claim 11, Obara further discloses look-up tables for storing predetermined factors for respective channel frequencies (Column 13, lines 1-5).

Art Unit: 2685

With respect to claim 12, Obara discloses a power amplifier, element number 13, and a transceiver, element number 11, having a variable gain amplifier, element number 12, responsive to the output value, where the detector is adapted to detect the output power from the power amplifier (Column 6, lines 3-11).

With respect to claims 13 and 14, Obara shows that the output power/input value varies linearly with the output value for the transceiver in figure 3 where the output power is in logarithmic scale, dB (Column 7, lines 31-36).

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Baldwin (U.S. 6,735,420) discloses a transmit power control system and method.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adeel Haroon whose telephone number is (571) 272-7405. The examiner can normally be reached on Monday thru Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2685

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AH  
11/9/05

  
EDWARD F. URBAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2000